

# ANSWERS

**TASK 1:** Distance 220, Speed 18000, D/S = 0.12222  
 $0.12222 \times 3600 = 44$  seconds (43.999\*)

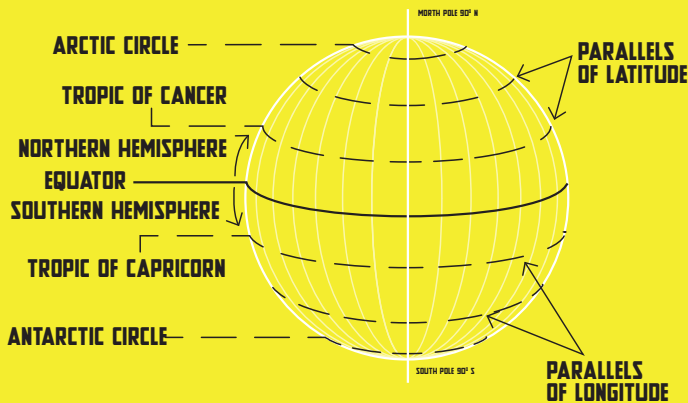
**TASK 2:** The International Space Station, the Moon and the Earth

### TASK 3:

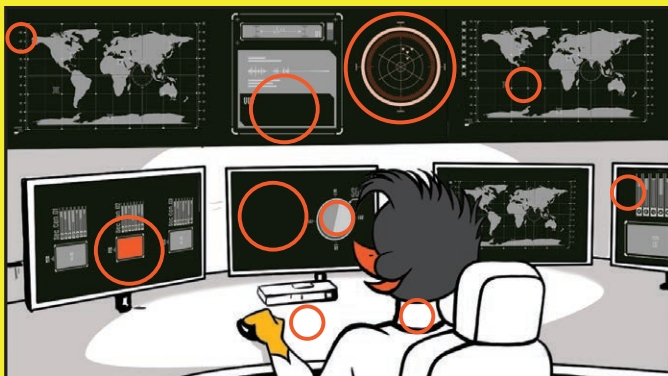
- 1957 The worlds first satellite, Sputnik 1, is launched.
- 1969 Satellites and Goonhilly Earth Station receiver Arthur helped broadcast the moon landing across the world.
- 2022 The first horizontal launch from Spaceport Cornwall is expected to take place.
- 1990 The Hubble Space Telescope is launched. If you have never seen the images from this you should look them up. They are stunning!
- 1998 International Space Station launched.
- 1961 Yuri Gagarin becomes the first person to orbit the earth.
- 1963 Valentina Tereshkova becomes the first woman into orbit.

**TASK 6:** 1: B, 2: C, 3: A, 4: C, 5: B.

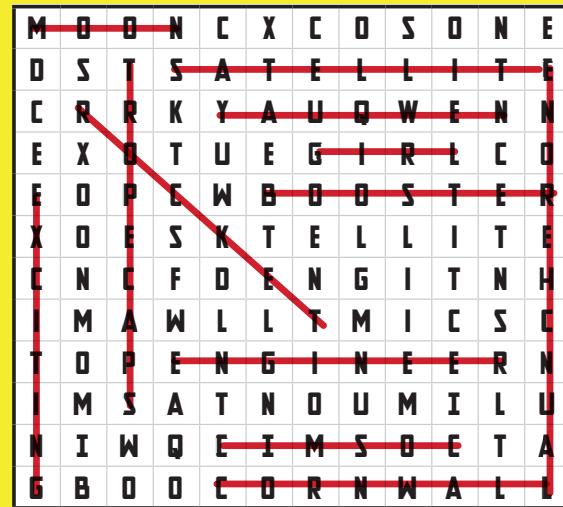
### TASK 8



### TASK 9:



### TASK 10:



**TASK 12: A:** Ocean-based satellites can be used for things like monitoring sea temperature, coral reefs, tracking animals such as whales and even helping in emergency situations by assisting with communications. **B:** Inform farmers about which areas of their fields need extra care **C:** rough terrain **D:** Tracking animals such as whales.

**TASK 13 & 14:** Planets left to right: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune. Days left to right: Mercury 88, Venus 225, Earth 365, Mars 687, Jupiter 4380, Saturn 10585, Uranus 30660, Neptune 60225.

**TASK 15: Engineers** - These people solve problems.

They use science and maths to work out the best way to create new things or to improve them...

**Space Craft Operators** - Once up in space our satellites will sometimes need to be controlled. These are the people that will guide and control space flight from their control centres...

**Space Data Scientists (Astrophysicists)** - These people explore the information that satellites send back to earth. They store, maintain and analyse this information to share with the rest of the world...

**Application Developers** - These people use the information that satellites have produced in applications that we may have on our phones, online or within products.

**TASK 16:** All are real courses apart from Astronaut Studies (a lot of astronauts come up through routes such as aerospace engineering, piloting or medicine).

**TASK 17: Acoess:** 4. Astrophysicists, 8. Lorell, 10. Atmosphere, 11. Engineers, 12. EIGHT, 13. Saturn, 14. Satellite. **Down:** 1. Cornwall, 2. Climate, 3. Cosmic Girl, 5. Palores, 6. STEAM, 7. Virgin Orbit, 9. University, 11. Earth, 15. Space.